

E1645-94 Standard Practice for the Preparation of Dried Paint Samples for Subsequent Lead Analysis by Atomic Spectrometry

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1. Scope

1.1 This practice covers the sample preparation procedures for paint samples that are collected during the assessment or abatement of lead hazards in and around buildings and related structures.

1.2 This practice describes the digestion procedures for paint samples that are to be analyzed for lead content.

1.3 This practice covers the general considerations for quantitative sample extraction for total recoverable lead in dried paint samples (either bulk paint or paint powder) using hot plate or microwave heating techniques, or both.

1.4 The values stated in SI units are to be regarded as the standard.

1.5 This practice describes an alternative sample preparation procedure to that given in Test Method D3335. The procedure described in this practice is a wet digestion method, while that described in Test Method D3335 employs dry ashing. Also, unlike the procedure outlined in Test Method D3335, this practice includes a microwave digestion procedure for dried paint samples.

1.6 This practice contains notes that are explanatory and not part of the mandatory requirements of the standard.

1.7 This practice is based on two NIOSH Methods, 7082 and 7105, and on EPA standard operating procedure for lead in paint.

1.8 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. For specific precautionary statements, see 6.2.4.4 and 7.2.1.1.

Adopted by:

Developed by ASTM Subcommittee: [E06.23](#)

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